

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING**

### **ERROR REPORT**

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Application Serial Number: 10/541,998  
Source: IFWP  
Date Processed by STIC: 8/3/06

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , **EFS Submission User Manual - ePAVE**)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/10/06



IFWP

## RAW SEQUENCE LISTING

DATE: 08/03/2006

PATENT APPLICATION: US/10/541,998

TIME: 09:50:26

Input Set : A:\19020.seq.txt

Output Set: N:\CRF4\08032006\J541998.raw

3 <110> APPLICANT: Collier, Greg  
 4 Walder, Ken  
 5 Segal, David  
 6 Foletta, Victoria  
 8 <120> TITLE OF INVENTION: OBESITY-RELATED GENES  
 10 <130> FILE REFERENCE: 19020  
 12 <140> CURRENT APPLICATION NUMBER: 10/541,998  
 13 <141> CURRENT FILING DATE: 2005-07-13  
 15 <160> NUMBER OF SEQ ID NOS: 13  
 17 <170> SOFTWARE: PatentIn version 3.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 426  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Psammomys obesus  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: misc\_feature  
 26 <222> LOCATION: (336)..(366) (336)  
 27 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 33 aatataatca cgcaggctcc taacctggag aacattgagc tgtactggaa cagctacaac 120  
 35 aaccgccgag acctgaactt cgagcggagt ggtgagatga ccctcaagt ccctgtgatg 180  
 37 ctggtggtag gagaccaagc gcctcatgag gatgccgtgg tggagtgtaa ctcaaaactg 240  
 39 gacccacac agacctcgtt cctcaagatg gctgattctg gaggtcagcc acagctgacc 300  
 W--> 41 cagccaggca agctgactga ggctttcaag tacttntctg aaggcatggg ctacatggcc 360  
 43 tctcctgca tgactcgct atcgaggtct cgcacggcat ctttgaccag cgcagcatcc 420  
 45 attgat 426  
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 49 <211> LENGTH: 451  
 50 <212> TYPE: DNA  
 51 <213> ORGANISM: Psammomys obesus  
 53 <400> SEQUENCE: 2  
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 56 atcgctcctg ccgtgggttca cattgaactg tategcaaac ttcctttctc gaagagggag 120  
 58 gtgccagtgg cgagtgggtc cggatttatc gtgtctgagg atggactgat tgtgaccaat 180  
 60 gtcacagtgg tgaccaacaa aaacagggtc aagggttgagc tgaagaatgg agcaacctat 240  
 62 gaagctaaaa tcaaggatgt ggatgaaaag gcagacatcg cacttatcaa aattgaccac 300  
 64 cagggaaagc tgccagtctt gctgctgggc cgctcctcag agcttcgacc aggagagttt 360  
 66 gtggtcgcca tcggaagccc cttttccctt caaaacacag tcaccactgg gatcgctcag 420  
 68 accaccagc gaggcggcaa agagctgggg c 451  
 71 <210> SEQ ID NO: 3  
 72 <211> LENGTH: 478  
 73 <212> TYPE: DNA

see pp 1-7  
 Does Not Comply  
 Corrected Diskette Needed

FYI: 'n' can only represent a  
 single  
 nucleotide.

If "sequence"  
 denotes  
 more than  
 one nucleotide,  
 it is an  
 invalid  
 designation.  
 If you mean

'n' = any nucleotide,  
 that is valid.

(please check all  
 sequences showing n's)

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Input Set : A:\19020.seq.txt

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80 tcagtacttg aacaaattca aaacacattg gtttattaac ttttggtca tgcattggtt      120
82 attaggttca aattatacct gattcatcta tatttacttt taaaatgtgt ggtttcctca      180
84 ttttaaaagt aaaactaaac agtgcttttg gaatttctaa gctactaatt gttgatagat      240
86 acagcctgtg tctagtaaaa tagttttgtg ggtgtgggtt ctatctttcc atgaaaaagt      300
88 gggagggtga agttagtttg gttagtgcct aatagttaaa tttatataaa ataagaatga      360
90 gcatttggtg tctgtatgaa agggccctaa atcaaaatga ttatccataa tcaatcttta      420
92 ttcttggttt ataaaaacca aagggcactc attggttaag tgtgctgaga tagaaaag      478
95 <210> SEQ ID NO: 4
96 <211> LENGTH: 1884
97 <212> TYPE: DNA
98 <213> ORGANISM: Psammomys obesus
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102 <222> LOCATION: (609)..(609)
103 <223> OTHER INFORMATION: n = any nucleotide sequence
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107 <221> NAME/KEY: misc_feature
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109 <223> OTHER INFORMATION: n = any nucleotide sequence
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114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (1388)..(1388)
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139 <222> LOCATION: (1568)..(1568)
140 <223> OTHER INFORMATION: n = any nucleotide sequence
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146 tcttcgctct gcgctcgtgg cctcctccaa ggccctccagt ctcctttaag aaaactcaag      120
148 acctgggaag ctacgatgcg agcttgatgc cgctacccta gcaggctatg gacttcctga      180
150 gggtcctcgg actggtgaca cccattccga tccgcatect tccaagctga taagcccggg      240
152 accctagggc ggggtgccca gactcatgtg tgacgccttg cagtgaaacc ccattcccag      300
154 tgtggttgct tctttgctgg gctttggccc atttgatacc acgaaggatg acgatgctag      360

```

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Input Set : A:\19020.seq.txt

Output Set: N:\CRF4\08032006\J541998.raw

W--> 156 ttatgcagca gccaacacac ctccccccaa ctctccgctg tcaactggtgg gccccactgt 420  
 158 ccaggaagca ggtgtccgga actgacatct tggagcagag gggccatgag aggtgtgtgt 480  
 160 atcctgccag aaagcagctg gaccacgacg ctcccaagat gaaccactg tatacagagg 540  
 162 catcatggga gttgttatgt caggagcatt ctagaccacac gtgtacttga gcgtggaaag 600  
 164 acagaagana ngcgcagaga ctggggcact tgatctgctc accatgatcg cctgcacggg 660  
 166 tctcatccag ttctgcctt aggtacaggt ggcggtgtcc acgggcttgc cattcaacgt 720  
 168 gctctcagac ccagatcggg ctccaccactg aggagaacct ttctactttg gtgggtatgc 780  
 170 agaggaaggg gtctcgactc cagagacctg gagtccaaag tttgtttttt tttatttacc 840  
 172 agtaatttat ttattttttt tattattagt tatgagtcca aagtttaata ccattcaagc 900  
 174 tactgtctgc tgtctgctta gagccacagc atgcaatgtg gcaccaaggc atccttgtcc 960  
 176 tcacagtttc acactgtggg aacaggcatc cttgttctta cagattagcg cgagggaac 1020  
 178 cagaaatatt aaacacgcag ggttgtctct ccaaaggagg aggcacatac cctgttttcc 1080  
 180 tcccgaaggc tgggagcgga ggtgtttgat atcctggcta cctctgtgca atctgtaggc 1140  
 182 catgtcctta agatgtagct gtcagtcggg agtggagccg gagccgtcag tcagtagatt 1200  
 184 ggggttgttg catgcgcctt taactccatt taattccagc actctagtgg tttggtacag 1260  
 186 cagcagcagc agcggttgca gtggcccggg gaagtcctga agaccagctt tcatcccagc 1320  
 188 actcaggcag caaaggcggg tggattctct gaggtcgagg ccggcctggt ctacagagtg 1380  
 190 agtccagnon agccagggct acaacagaga aancctctct attgaaaaat aaataaatta 1440  
 192 taaaaaaaaa aaggtgtcat gtgtcctgtg tactttacaa agaatgttga tgcttaagct 1500  
 194 tttttgtgca cncaagaaaa ttgtttaact ggtgtcagac tcctgaagtt tgaaccagca 1560  
 196 cttagccngg cgtggtggcg cagcctgta atcccagccc tcgggaggca gaggcagggtg 1620  
 198 gatctctgag ttagaggcca gcctggtcta cagagtgagt ccaggacagc caggattaca 1680  
 200 cagagaaacc ccgtctcaaa aatgtaaaat aaattaaaat aaagtttgaa ccaacagtgt 1740  
 202 ttactgagtc gtgttgaaac agattacctt tttgcttctc tttgatcatt attctactgt 1800  
 204 ggtgtcagca gagaccctc cagcaggtgg ccaacgtgag agtctcaagc ccgagaaggt 1860  
 206 aagaatttaa aaaaaaaaaa aaaa 1884  
 209 <210> SEQ ID NO: 5  
 210 <211> LENGTH: 1358  
 211 <212> TYPE: DNA  
 212 <213> ORGANISM: Psammomys obesus  
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 215 <221> NAME/KEY: misc\_feature  
 216 <222> LOCATION: (385)..(385)  
 217 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 223 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 228 <221> NAME/KEY: misc\_feature  
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 239 <220> FEATURE:  
 240 <221> NAME/KEY: misc\_feature  
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## RAW SEQUENCE LISTING

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Input Set : A:\19020.seq.txt

Output Set: N:\CRF4\08032006\J541998.raw

242 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 246 <221> NAME/KEY: misc\_feature  
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 248 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 253 <222> LOCATION: (928)..(928)  
 254 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 258 <221> NAME/KEY: misc\_feature  
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 266 <222> LOCATION: (1165)..(1165)  
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 278 <222> LOCATION: (1273)..(1273)  
 279 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 283 <221> NAME/KEY: misc\_feature  
 284 <222> LOCATION: (1284)..(1284)  
 285 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 289 <221> NAME/KEY: misc\_feature  
 290 <222> LOCATION: (1303)..(1303)  
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 309 <222> LOCATION: (1330)..(1330)  
 310 <223> OTHER INFORMATION: n = any nucleotide sequence  
 313 <400> SEQUENCE: 5  
 314 gttgggaaag aatgaagaaa caaccgatg aatagaaatg aaaagcctaa gccaaatgga 60  
 316 tttctgttga gatgttggat gaaaacaagt atccactgtt taccaacttg acgaaaaatc 120  
 318 tcaactgagg tttggctgtt aaaaaaaaaa attcactgtg gcctctgtgc ttaattgtcg 180

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Input Set : A:\19020.seq.txt

Output Set: N:\CRF4\08032006\J541998.raw

320 taaaccattg tgactgttac tgcTcaaagt atcgtactgt tcattagtaa ctacatcaga 240  
 322 attgcaccgc tgctgttgga aaagccaata aagaaacccc cagactgctg ctcagcaaatt 300  
 324 gtttaataaag tgtgCGcacc gtaggcctgt ccaccacagtc accaagcagc gtccctttgt 360  
 W--> 326 ctgcgagtggt ctgtgggtgt gattnaccac ctcagaggtg cacagcacct gcttgngccc 420  
 328 ttaagtgtgn gtcagaagac aagcagcttc tcggtaaacca acaacctgct tttcggagct 480  
 330 cagtgttttag gctgtttact gaatcanata tgtaactcag cacacataag cgaagagaga 540  
 332 ttttggtctgc actggcaaga gtgaacccaaa tttacttcta ttttttaaag gcagatcata 600  
 334 ttttaagcata taagtaattt atggatataa attgtttgat atttatttta gtctgaatat 660  
 336 ttgttttttaa attattacat gtgtttctcta tgtctttatc tctggaataa cgatgccatt 720  
 338 aaccacatgg ccatatgttt tgaaagttgg gtgnaacaga ggaaaagtca tccttcttgg 780  
 340 ttcttgactc cctttcctca actacatgat aagtctatca ataaagcatt tgacctcagc 840  
 342 aggggCagaa gcctgnaaag ttagaaaact cattgaccac agtagacaat tgattttctta 900  
 344 gaaataagaa gtgagaagca gctgctgngc tgagcagggg atgtaaacca agtccagatg 960  
 346 caccaacgtg aagaggcttn tagcaaaaat atgtttgctt ctcacccctg cacatgttct 1020  
 348 agatgcttaa aaacagccac atggccccgc tgcgaggacc tcgtaatgtt gttgtttgtg 1080  
 350 ttgtttgtgt taaaggagtt ctcacaagcg tacaagtga gcaactgaaag tggctgaggg 1140  
 352 ccacagtctc cagcacccaa gtctnttccg cagcacgcca agctgggtgt gtccgggtgn 1200  
 354 gtatgtctgt gctcagtgcc aagctgggtgt ttggtcccgT tgtatattat gtgccccaaG 1260  
 356 tgttttgggg canagctgac ccangctgga cacacttctt ttngncttcg agtttactgg 1320  
 358 ttgatncagn taaaaataaa ttaattaatt aaagactt 1358  
 361 <210> SEQ ID NO: 6  
 362 <211> LENGTH: 390  
 363 <212> TYPE: DNA  
 364 <213> ORGANISM: Psammomys obesus  
 366 <220> FEATURE:  
 367 <221> NAME/KEY: misc\_feature  
 368 <222> LOCATION: (3)..(3)  
 369 <223> OTHER INFORMATION: n = any nucleotide sequence  
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 373 <221> NAME/KEY: misc\_feature  
 374 <222> LOCATION: (9)..(9)  
 375 <223> OTHER INFORMATION: n = any nucleotide sequence  
 378 <220> FEATURE:  
 379 <221> NAME/KEY: misc\_feature ? "C" is at 60 (see p.6)  
 380 <222> LOCATION: (60)..(60)  
 381 <223> OTHER INFORMATION: (n) = any nucleotide sequence  
 384 <220> FEATURE:  
 385 <221> NAME/KEY: misc\_feature "a" is at 71  
 386 <222> LOCATION: (71)..(71)  
 387 <223> OTHER INFORMATION: (n) = any nucleotide sequence  
 390 <220> FEATURE:  
 391 <221> NAME/KEY: misc\_feature "a" is at 91  
 392 <222> LOCATION: (91)..(91)  
 393 <223> OTHER INFORMATION: (n) = any nucleotide sequence  
 396 <220> FEATURE:  
 397 <221> NAME/KEY: misc\_feature "g" is at 113  
 398 <222> LOCATION: (113)..(113)  
 399 <223> OTHER INFORMATION: (n) = any nucleotide sequence  
 402 <220> FEATURE:

see p.6

<220>  
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 <222> (388)..(388)  
 <223> *n* = any nucleotide *sequence*

<220>  
 <221> misc\_feature  
 <222> (524)..(524)  
 <223> *n* = any nucleotide *sequence*

<220>  
 <221> misc\_feature  
 <222> (527)..(527)  
 <223> *n* = any nucleotide *sequence*

*there are only 390  
 nucleotides in this  
 sequence*

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 aatatcatcg agcagcgcag ccttaagtgg atcttcgtcg ggggcaaggg tgcggttggt 120  
 aagaccacct gcagctgcag cctggcgggtc cagctgtcta agggacgtga gagtgttcta 180  
 atcatttcca cagaccacgc tcacaacatc tcagatgcat ttgaccagaa gttctccaag 240  
 gtgcctacca aggtcaaagg ctatgacaac ctctttgcta tggagataga cccgagcctg 300  
 ggcgtggcag agctccctga tgaagttctt cgaggaagac aacatgctga gcatgggcaa 360  
 gaagatgatg caggaggcca tgagcgcctt 390

RAW SEQUENCE LISTING ERROR SUMMARY  
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DATE: 08/03/2006  
TIME: 09:50:27

Input Set : A:\19020.seq.txt  
Output Set: N:\CRF4\08032006\J541998.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 336  
Seq#:4; N Pos. 609, 611, 1388, 1390, 1413, 1512, 1568  
Seq#:5; N Pos. 385, 416, 430, 507, 754, 856, 928, 980, 1165, 1200, 1273, 1284, 1303  
Seq#:5; N Pos. 1305, 1326, 1330  
Seq#:6; N Pos. 3, 9  
Seq#:7; N Pos. 524, 527  
Seq#:8; N Pos. 60  
Seq#:9; N Pos. 71, 91, 113, 388



**VERIFICATION SUMMARY**

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Input Set : A:\19020.seq.txt

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L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300  
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:600  
M:341 Repeated in SeqNo=4  
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:360  
M:341 Repeated in SeqNo=5  
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480  
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60  
M:341 Repeated in SeqNo=9